

<u>¹⁷⁶Yb(³⁶S,Xγ) 2003OI03,2004OI05</u>				
History				
Type	Author	Citation	Literature Cutoff Date	
Full Evaluation	C. D. Nesaraja, E. A. Mccutchan	NDS 133, 1 (2016)	30-Sep-2015	

[2004OI05](#),[2003OI05](#): Deep inelastic reaction with E(³⁶S)=230 MeV beam on ¹⁷⁶Yb. Measured E γ , I γ , $\gamma\gamma$ using GASP array of 40 HPGe detectors and 80 BGO crystals. Comparison with shell-model calculations. Both papers are from the same group.

<u>⁴¹Cl Levels</u>		
E(level)	J π [†]	Comments
0 [‡]	(1/2 ⁺)	
130 [‡]	(3/2 ⁺)	
891 [‡]	(5/2 ⁺)	
1445 [‡]	(7/2 ⁺)	
2451 [‡]	(11/2 ⁺)	J π : (9/2 ⁺) proposed by 2003OI03 , 2004OI05 .

[†] From Adopted Levels.
[‡] Band(A): Yrast structure.

<u>γ(⁴¹Cl)</u>					
E γ	I γ	E _i (level)	J π _i	E _f	J π _f
130		130	(3/2 ⁺)	0	(1/2 ⁺)
554	628 37	1445	(7/2 ⁺)	891	(5/2 ⁺)
761		891	(5/2 ⁺)	130	(3/2 ⁺)
1006	223 28	2451	(11/2 ⁺)	1445	(7/2 ⁺)

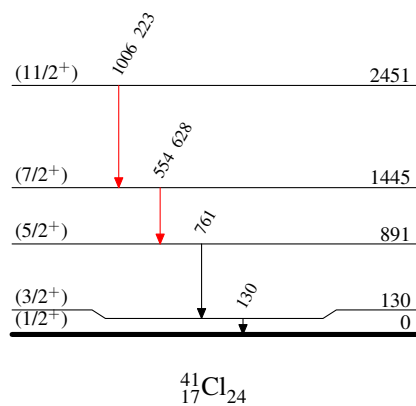
$^{176}\text{Yb}(^{36}\text{S},\text{X}\gamma)$ 2003OI03,2004OI05

Level Scheme

Intensities: Relative I_γ

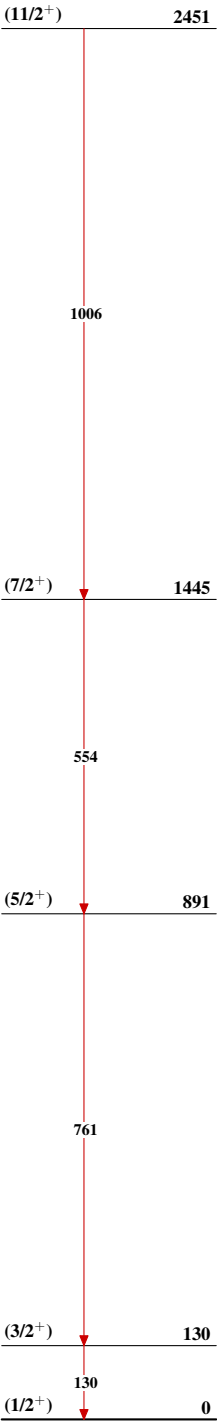
Legend

- $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
- $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
- $I_\gamma > 10\% \times I_\gamma^{\text{max}}$



$^{176}\text{Yb}(^{36}\text{S},\text{X}\gamma)$ 2003OI03,2004OI05

Band(A): Yrast structure



$^{41}_{17}\text{Cl}_{24}$